

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2001317979
PUBLICATION DATE : 16-11-01

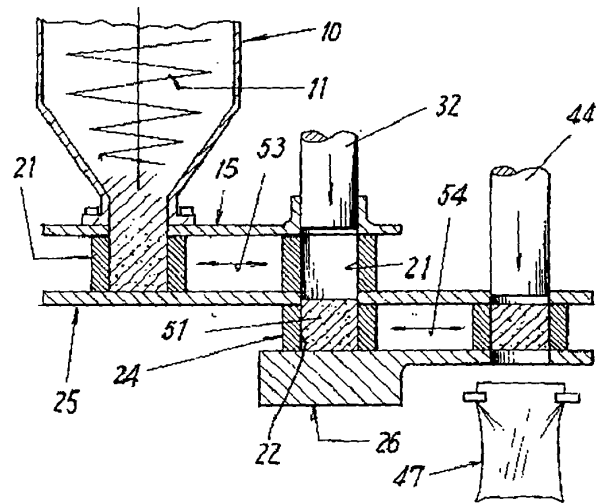
APPLICATION DATE : 02-05-00
APPLICATION NUMBER : 2000133069

APPLICANT : FURUKAWA MFG CO LTD;

INVENTOR : YOGORO JUNICHI;

INT.CL. : G01F 11/18 B65B 1/12 B65B 1/36
G01F 11/24

TITLE : APPARATUS FOR METERING AND
CHARGING MATERIAL-TO-BE-
PACKAGED TO CYLINDER



ABSTRACT : PROBLEM TO BE SOLVED: To reduce damages of a material to be packaged, due to forcible rotation of an auger screw 11 by eliminating a forcible compression with the screw 11 to a first metering cylinder 21 like in a conventional apparatus, and metering substantially by a pressing force of a first piston 32, and the screw 11 is used for merely charging to the metering cylinder 21.

SOLUTION: The first metering cylinder 21, for receiving a supply of the material to be packaged from a hopper 10 by the rotation of the auger screw 11 in the hopper 11, is then moved above a second metering cylinder 22 along a circular track. The second cylinder 22 and the first piston 32 exist at coaxial positions at the positions. The piston 32 falling at an arrival of the cylinder 21 presses the material in the cylinder 21 to a third guide plate 26 and compresses the material in the cylinder 22. Meanwhile, when the cylinder 22 is moved under a second piston 44, the upper part of the material 51 to be packaged therein is shorn by a second guide plate 25, and metered based on a volume of the cylinder 22. Then, the piston 44 pushes out and fills the material in a lower package 47.

COPYRIGHT: (C)2001,JPO